

2019 LKFT status



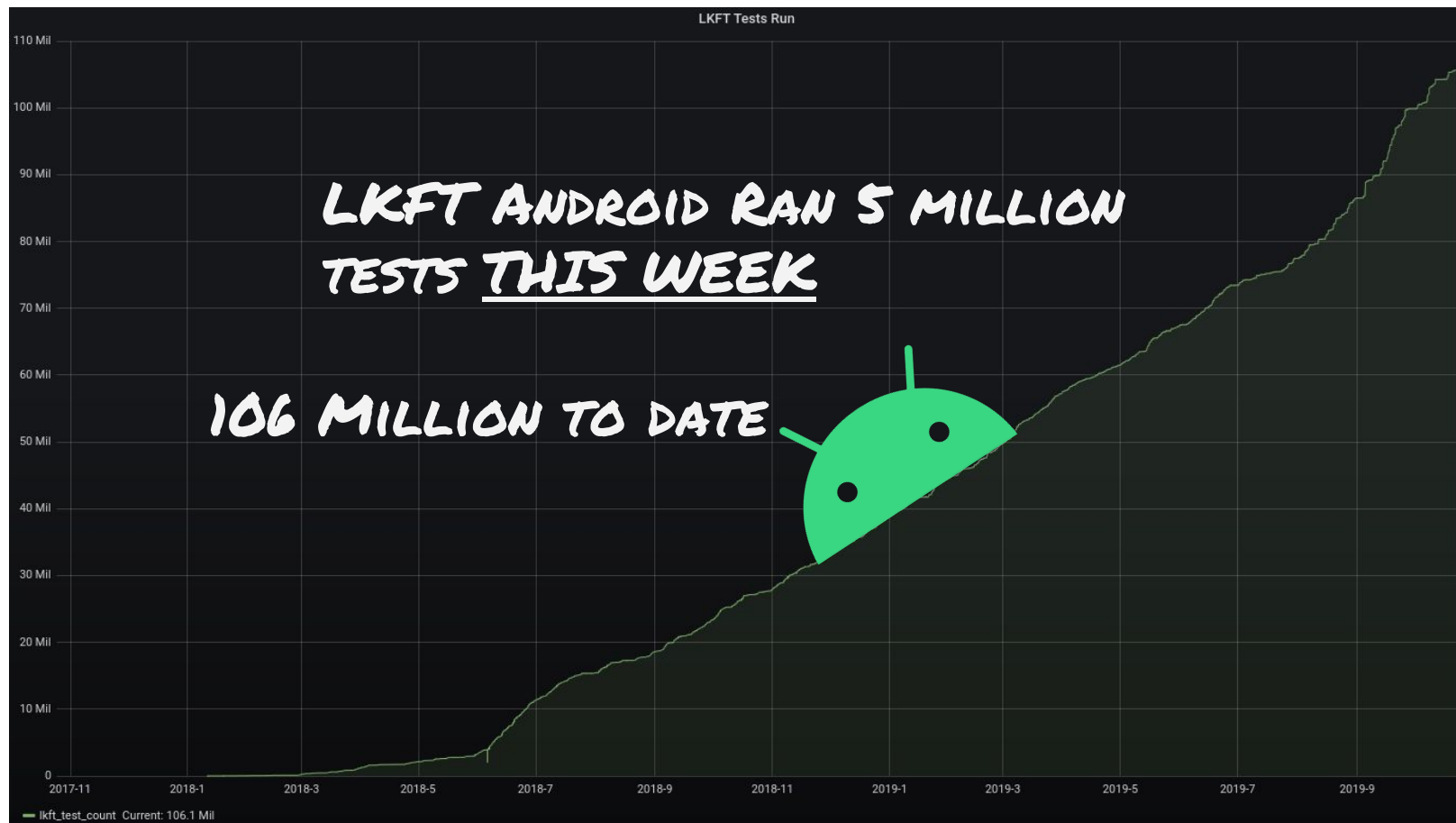
Intro: LKFT Today

- Architectures: arm32, arm64, i386, x86_64
- Hardware: X15, DragonBoard 410c, Juno, HiKey, x86_64 servers
- QEMU: x86* on x86_64 servers, arm* on SynQuacer arm64 hosts
- Linux Branches:
 - LTS: 4.4, 4.9, 4.14, 4.19
 - Latest stable (5.3), mainline, next
- Tests: LTP, libhugetlbfs, perf, v4l2, kvm-unit-tests, s-suite (i/o benchmark), kselftests
- Most tests run in all environments on every push for a total of ~25,000 tests per push.
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LKFT Tests Run



Linaro
connect
San Diego 2019



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LKFT 2.0

- Boot design
 - LAVA jobs all take a rootfs parameter and a kernel parameter
 - If a baked rootfs is required, it is done in the dispatcher
 - Fastboot flash is avoided where possible
 - Use NFS based rootfs where possible
 - LAVA job generation abstracted to its own tool
- Test design
 - Kselftest built along with kernel and overlayed into rootfs via LAVA at runtime
 - Possible to have different rootfs for different tests, just as with kernels
 - Improved parsing for kernel warnings and errors
 - Improved TAP support

LKFT 2.0 cont.

- Reporting design
 - Build (or hopefully find!) reporting and analytics layer
 - Perform cross branch and cross time analysis
 - Generate fine grained, custom reports
 - Support arbitrary frequency
 - Integrate with multiple data sources
 - Results aggregation? (see [kcidb](#) project)
 - Automatically identify flaky results. Confidence scoring?